

Final Exam:	<p>Monday, December 10, 10:30 a.m. - 1:15 p.m. 105 Votey</p> <p>Note that the final exam is scheduled by the Registrar at a day and time when you will have no conflicts from other courses. I have no flexibility in the scheduling of this exam and - unless you have four or more final exams scheduled within a 36-hour period - you are expected to take the final exam during this time.</p> <p>See the current catalogue for more information, here: http://catalogue.uvm.edu/undergraduate/academicinfo/examsandgrading/</p>
Supplemental Instruction (S.I.):	<p><u>S.I. Leader:</u> Briana Leger (bleger@uvm.edu)</p> <p><u>Schedule:</u> Session 1: Tuesdays, 5:00-6:00 pm - Marsh Life Science 105 Session 2: Thursdays, 6:00-7:00 pm - Aiken 110</p> <p><u>Office Hours:</u> Wednesdays, noon-12:50 pm Fridays, 9:40-10:30 am</p> <p><u>S.I. Leader:</u> Caity Decara (cdecara@uvm.edu)</p> <p><u>Schedule:</u> Session 1: Sundays, 6:30-7:30 pm - Aiken 102 Session 2: Mondays, 6:30-7:30 pm - Votey 105</p> <p><u>Office Hours:</u> Tuesdays, 11:40 am -12:30 pm tbd</p> <p><u>S.I. Leader:</u> Jeremy Weiland (jsweilan@uvm.edu)</p> <p><u>Schedule:</u> Session 1: Mondays, 5:00-6:00 pm - Lafayette 207 Session 2: Wednesdays, 7:00-8:00 pm - Waterman 427</p> <p><u>Office Hours:</u> Tuesdays, 8:55-9:45 am Fridays, noon-12:50 pm</p>
Lab:	Various times - you must attend the lab section for which you have registered.
Office Hours:	<p>Monday: 2-3 pm</p> <p>Tuesday: 10:30-11:30 am</p> <p>Thursday: 11 am - noon</p>
T.A. Office Hours:	T.A.s for all of the lecture sections staff office hours Monday-Thursday between 8:30 am and 8:30 pm and on Friday until 4:30 pm. They can be found on the 3rd Floor of Discovery Hall, across from the Chemistry Department mailboxes.

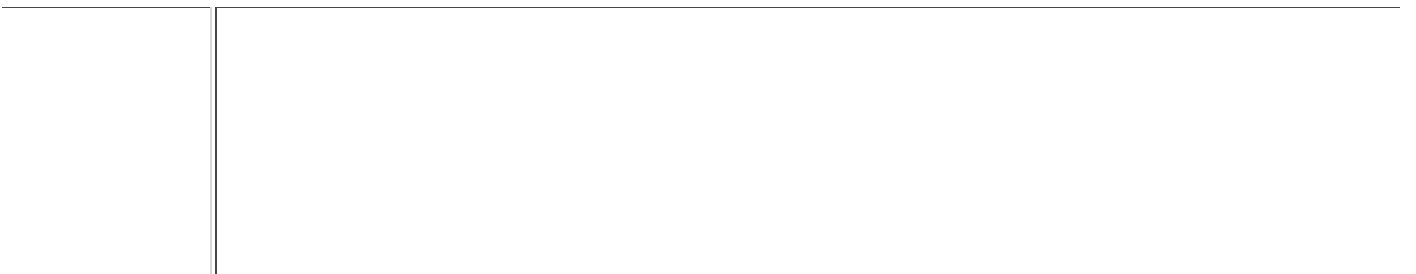
When available, you can find the schedule here.

Course Materials

<p>Text and Online Materials (REQUIRED):</p>	<p>Nivaldo J. Tro's <i>Chemistry: Structure and Properties, 2nd Edition</i></p> <p><i>Mastering Chemistry</i> (Pearson HigherEd)</p> <p>Every student enrolled in CHEM 031 <i>must</i> be able to access Pearson HigherEd's <i>Mastering Chemistry</i> site in order to complete and get credit for the required online quizzes (worth 12.5% of your total course grade). There are many options for gaining access to this online site but, ultimately, it is up to you - the student - to decide what is best for your learning style and financial situation. There are two options that I feel are worthy of your consideration:</p> <ul style="list-style-type: none">• Online Access/Print-Copy Bundle - This is the package that is available at the UVM Bookstore and provides complete online access to all published materials (the eText version of Tro's textbook, assigned problems and online quizzes via <i>Mastering Chemistry</i>, etc.) plus a loose-leaf (i.e., unbound) print copy of Tro and a print copy of the Solutions Manual. For just under \$40 more than online-only access, this is the best way to go if you want to have <i>some</i> kind of hardcopy of the text and/or solutions to the assigned problems.• Online Access Only - This provides you with complete online access to all of the published materials needed for the course. This is available only through the Pearson HigherEd website and will provide you with the access code needed to log onto Pearson's online <i>Mastering Chemistry</i> site. If you only want or need electronic access to the text, assigned problems, quizzes, solutions manual, etc., this is the way to go. Please note, however, that you will need to be online in order to access any of these materials. <p>Note that there will be assigned reading in the textbook as well as assigned homework problems and chapter quizzes. You must have online access to <i>Mastering Chemistry</i> in order to do the quizzes that are completed online for credit. There is not an option to complete the required online quizzes without paying for online access, so you are not able to share access to the text with a classmate without purchasing your own online access code.</p> <p>The good news, however, is that the cost of the online access package is far far lower than what it used to cost to purchase the hardcopy version of the textbook in years past, and the online homework and quizzes are designed to help guide you as you gain mastery of the material. The same materials are used in CHEM 032 and your online access code is valid for 24 months, so you will not need to pay for online access if you need to take CHEM 032 and enroll by the Spring 2020 semester.</p>
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<p>Lab Materials (REQUIRED):</p>	<ul style="list-style-type: none"> • Written instructions and videos for each of the experiments for the laboratory
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In addition, if your score (as a %) is higher on the final exam than your scores (as a %) on any of the mid-semester exams, *the lowest mid-semester exam score will be replaced by the equivalent score from your final exam.* For example: if you received mid-semester exam scores (remember, each is out of 150 points) of 105, 88, and 95 and a final exam score (out



	course comments (for those suggestions or questions that may pop up outside of class).
The Laboratory:	Laboratories will begin the week of September 10th. The laboratory is a necessary adjunct of this course, designed to both introduce you to some new material, reinforce other material, and give you some idea of the distinction between reading about and actually doing chemistry. More details can be found in the laboratory syllabus on the Blackboard site for your lab section.
Review - Problem Solving Sessions:	<i>Every Tuesday evening from 6-7:30 pm in Rowell103, I will hold a review/problem-solving session.</i> The purpose of these sessions is two-fold: 1) to engage you in the art of problem-solving, focusing on assigned (and other) problems from the current lecture material, and 2) to address specific details of the lecture material and assigned problems based on questions from those attending. While I will not specifically introduce new material in these sessions, what we will cover is critical to your success in the course and your attendance and participation is both encouraged and expected. Learning how to successfully Evban

take a quiz while it is still available, you will not be penalized (unless you miss more than 2 quizzes, of course). You will still be able to access the quizzes after they are no longer active for earning points, so that you can use them to help review for exams and to serve as a diagnostic for the material covered in each chapter.

Classroom Policies

Lectures:

I expect that you will attend each class, unless you are unable to do so due to circumstances beyond your control (e.g., illness, family emergency, etc.). While I do not take attendance (and I do post the lecture slides for each class online in Blackboard), what we do in class and what I say in class is designed to help you learn the material. Of course, *everything* I say or do in class will not necessarily be of immediate value to you, but we are a diverse class and I expect that you will find at least *some* of what we cover in class helpful at some point.

While in class, I do expect that you will be respectful of both your fellow students as well as me, your instructor. This means that you will be paying attention, engaging with the material we cover, and participating in any class activities. If I ask the class a question, please do respond if you know (or suspect that you know) the answer. If I have said something that does not make sense to you, ask a question or ask me to clarify what I have said

problems for us to work together. While not a substitute for working assigned problems independently, my hope is that you will gain some experience and confidence in problem-solving that will help guide your *daily* independent problem-solving efforts.

UVM Policies

<p>Student Learning Accommodations:</p>	<p><i>In keeping with University policy, any student with a documented disability interested in utilizing accommodations should contact the Student Accessibility Services (SAS) office on campus. SAS works with students and faculty in an interactive process to explore reasonable and appropriate accommodations, which are communicated to faculty in an accommodation letter. All students are strongly encouraged to meet with their faculty to discuss the accommodations they plan to use in each course. A student's accommodation letter lists those accommodations that will not be implemented until the student meets with their faculty to create a plan.</i></p> <p>Student Accessibility Services A170 Living/Learning Center 802-656-7753.</p> <p>access@uvm.edu http://www.uvm.edu/access</p>
<p>Policy on Disability Certification and Student Support:</p>	<p>http://www.uvm.edu/policies/student/disability.pdf</p>
<p>Religious Holiday Policy Statement:</p>	<p><i>Students have the right to practice the religion of their choice. If you need to miss class to observe a religious holiday, please submit the dates of your absence to me in writing by the end of the second full week of classes. You will be permitted to make up work within a mutually agreed-upon time.</i></p>
<p>Academic Integrity:</p>	<p>This policy addresses plagiarism, fabrication, collusion, and cheating.</p> <p>http://www.uvm.edu/policies/student/acadintegrity.pdf</p>
<p>Code of Student Rights and Responsibilities:</p>	<p>http://www.uvm.edu/policies/student/studentcode.pdf</p>
<p>Center for Health and Well-Being:</p>	<p>http://www.uvm.edu/~chwb/</p>
<p>Counseling and Psychiatry Services (CAPS):</p>	<p>http://www.uvm.edu/~chwb/psych/</p> <p>If you are concerned about a UVM community member or are concerned about a specific event, we encourage you to contact the Dean of Students Office (802-656-3380).</p> <p>If you would like to remain anonymous, you can report your concerns online by visiting the Dean of Students website at http://www.uvm.edu/~saffairs/</p>

Course Schedule

Approximate Dates	Chapter/Topic	Problems	Experiment (Week of)	Exam
August 27, 29, 31 Sept 5, 7	Chapt. E: <i>Essentials - Units, Measurement, and Problem Solving</i>	#19, 21, 23, 25, 27, 29, 33, 37, 39, 41, 45, 47, 49, 51, 53, 55, 59, 61, 65, 71, 73, 75, 79, 81, 87, 89, 91, 95, 99	-	-
Sept. 7, 10, 12	Chapt. 1: <i>Atoms</i>	#35, 39, 43, 45, 49, 53, 55, 57, 59, 61, 63, 65, 67, 71, 75, 77, 79, 83, 85, 87, 89, 91, 93, 97, 103, 105, 107, 109, 117	E p <i>Measurements and Density</i> (Sept. 10)	EXAM #1 Sept. 11th
Sept. 12, 13, 17, 19	Chapt. 2: <i>The Quantum-Mechanical Model of the Atom</i>	#35, 37, 39, 41, 43, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 79, 85, 89, 91, 99	E p <i>Flame Emission Spectra of Metals</i> (Sept. 17)	-
Sept. 19, 21, 24, 26	Chapt. 3: <i>Periodic Properties of the Elements</i>	#41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 87, 89, 91, 95, 97, 101, 103, 109, 115, 127, 135	E p <i>Periodic Trends</i> (Sept. 24)	-
Sept. 28 Oct. 1, 3	Chapt. 4: <i>Molecules and Compounds</i>	#29, 31, 33, 35, 37, 39, 43, 45, 47, 49, 51, 53, 55, 57, 61, 63, 65, 67, 69, 71, 75, 77, 79, 83, 87, 93, 95, 97, 101, 103, 105, 109, 111, 117, 119, 121, 123, 125, 127, 137	E p <i>Determination of a Chemical Formula</i> (Oct. 1)	-
Oct. 3, 5, 10, 12, 15	Chapt. 5: <i>Chemical Bonding I</i>	#23, 25, 27, 29, 31, 35, 37, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 69, 71, 73, 75, 79, 81, 83, 85, 91, 95, 97, 99, 101	o a D o a (Oct. 8)	-
Oct. 15, 17, 19, 22	Chapt. 6: <i>Chemical Bonding II</i>	#25, 29, 31, 33, 35, 39, 41, 43, 45, 49, 51, 53, 55, 57, 59, 61	E p <i>Molecular Models</i> (Oct. 15)	EXAM #2 6
Oct. 22, 24	Chapt. 11: <i>Liquids, Solids, and Intermolecular Forces</i> (sections 11.1 - 11.5 only)	# 35, 37, 39, 41, 43, 45, 47, 49, 51	E p 6 <i>Chromatography, Evaporation, and Intermolecular Forces</i> (Oct. 22)	-

Oct. 26, 29	Chapt. 7: <i>Chemical Reactions and Chemical Quantities</i>	#15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 53, 55, 57, 61, 63, 65, 67, 69, 71, 75, 81, 85	E p <i>Chemical Reactions of Copper</i> (Oct. 29)	-
Oct. 29, 31 Nov. 2, 5	Chapt. 8: <i>Introduction to Solutions and Aqueous Reactions</i>	#21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 87, 91, 93, 99	E p <i>Determination of the Acid Content in a Food Product</i> (Nov. 5)	-
Nov. 7, 9, 12, 14	Chapt. 9: <i>Thermochemistry</i>	#31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 99, 101, 107, 111, 113, 117, 119, 123	E p <i>Heat Capacity and Heat of Formation</i> (Nov. 12)	EXAM #3 <i>o</i>
Nov. 14, 16, 26, 28, 30	Chapt. 10: <i>Gases</i>	#25, 29, 31, 33, 35, 37, 39, 41, 43, 47, 49, 51, 53, 55, 57, 59, 61, 63, 67, 69, 71, 73, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 99, 101, 105, 107, 113, 123, 125, 127	E p <i>Gas Law Determination of Molecular Weights</i> (Nov. 26)	-
Nov. 30 Dec. 3, 5, 7	Chapt. 11: <i>Liquids, Solids, and Intermolecular Forces</i> (sections 11.5 - 11.9 only)	#53, 57, 59, 61, 63, 65, 67, 69, 71, 73, 77, 81, 85, 87, 93	-	-
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Last Updated: Aug 22, 2018